

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| L8 | 190 | ("20040081260" "20040028007" "5007068" "6111910" "5497400" "5909470" "6067315" "20060109931" "5311523" "5757821" "5768307" "5867538" "4768208" "5774508" "20050243943" "20030012310" "20040224657" "5727083" "5313493" "20050111596" "6236685" "5247470" "5796788" "5307138" "5297161" "5544167" "5588026" "5703908" "6006082" "6072785" "6249518" "6463295" "6687507" "20020004400" "20040097207" "20050111590" "20060233153" "6178209" "20040184514" "20060182066" "6205187" "20060232416" "5712877" "5802117" "5912931" "6122269" "6400928" "7027530" "20050175122" "20060268676" "4346380" "4564946" "5570379" "5649288" "5710993" "5893030" "5537443" "5442661" "5546430" "5299236" "5345601" "5369800" "5920554" "6222834" "6222834" "6947499" "20020012407" "20020114379" "20050272396" "20060172716" "20060268973" "5887028" "6085104" "6965654" "6996156" "7130587" "20020018528" "20020141485" "20030043927" "20050075103" "4935837" "4856027" "4485487" "4546322" "4926245" "4947407" "5272531" "5347542" "5412687" "5440267" "5517530" "5790784" "5907585" "5910752" "5914959" "5995483" "6037835" "6061406" "6061406" "6134283").pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/05 09:01 |
| L9 | 0 | ("2002/0141485").URPN. | USPAT | OR | ON | 2006/12/05 09:18 |
| L10 | 5 | ("20020004400" "5289476" "5347542" "5377256" "5479482"). PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/05 09:35 |
| L11 | 11 | ("6400928").URPN. | USPAT | OR | ON | 2006/12/05 10:56 |
| L12 | 42 | demodulat\$4 near3 priorit\$5 | USPAT | OR | ON | 2006/12/05 10:57 |
| L13 | 5777 | (order\$4 classifi\$7 priorit\$5) near5 demodulat\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/05 10:58 |

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|-----|------|--|---|----|----|------------------|
| L14 | 0 | adaptiv\$4 near3 demodulat45 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/05 10:59 |
| L15 | 1106 | adaptiv\$4 near3 demodulat\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/05 10:59 |
| L16 | 46 | 15 same 13 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/05 11:06 |
| L17 | 2547 | demodulat\$4 near2 (scheme parameter) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/05 11:07 |
| L18 | 82 | 13 same 17 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/05 11:07 |
| L19 | 81 | 18 not 16 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/05 11:07 |
| L20 | 0 | ("2006/0115014").URPN. | USPAT | OR | ON | 2006/12/05 11:08 |
| L21 | 0 | ("2004/0081260").URPN. | USPAT | OR | ON | 2006/12/05 11:49 |
| L22 | 458 | priorit\$4 same demodulat\$4 | USPAT | OR | ON | 2006/12/05 11:50 |
| L23 | 4 | 17 same 22 | USPAT | OR | ON | 2006/12/05 11:50 |
| L24 | 46 | 17 and 22 | USPAT | OR | ON | 2006/12/05 11:50 |
| L25 | 44 | 24 not 19 | USPAT | OR | ON | 2006/12/05 11:56 |
| L26 | 23 | estimat\$4 near5 ((higher or lower) near3 demodulat\$4) | USPAT | OR | ON | 2006/12/05 12:01 |
| L27 | 2698 | 375/224.ccls. 375/340.ccls. 375/316. ccls. | USPAT | OR | ON | 2006/12/05 12:04 |
| L28 | 2073 | 370/252.ccls. 370/241.ccls. | USPAT | OR | ON | 2006/12/05 12:05 |
| L29 | 4690 | 27 28 | USPAT | OR | ON | 2006/12/05 12:05 |
| L30 | 27 | 22 and 29 | USPAT | OR | ON | 2006/12/05 12:07 |
| L31 | 196 | 29 and 13 not 30 | USPAT | OR | ON | 2006/12/05 12:07 |
| L32 | 13 | 15 and 31 | USPAT | OR | ON | 2006/12/05 12:07 |
| S1 | 569 | priori\$6 near4 modulats\$6 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/04 18:54 |

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|-----|-------|---|---|----|----|------------------|
| S2 | 0 | adaptive adj2 modulat45 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/05 10:58 |
| S3 | 2704 | adaptive adj2 modulat\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/04 18:55 |
| S4 | 0 | S1 same S2 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/04 18:55 |
| S5 | 10 | S1 same S3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/04 18:57 |
| S6 | 45 | S3 same priorit\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/04 19:13 |
| S7 | 481 | priorit\$5 near5 modulat\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/04 19:20 |
| S8 | 3328 | estimat\$4 near4 modulat\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/04 19:16 |
| S9 | 6 | S7 same S8 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/04 19:16 |
| S10 | 31032 | (order\$4 classifi\$7 priorit\$5) near5 modulat\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/05 10:57 |
| S11 | 122 | (S8 same S10) not S9 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/04 19:25 |
| S12 | 18 | S11.clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/04 19:22 |
| S13 | 0 | ("2005/0143011").URPN. | USPAT | OR | ON | 2006/12/04 19:24 |
| S14 | 46 | S11 not S12 | USPAT | OR | ON | 2006/12/04 19:24 |

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|-----|-----|-------------|---|----|----|------------------|
| S15 | 104 | S11 not S12 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/05 09:00 |
|-----|-----|-------------|---|----|----|------------------|

Titles of most frequently occurring classifications of patents returned
from a search of 10644845 on Dec 05 , 2006

- 10 375/340 (4 OR, 6 XR)
Class 375 PULSE OR DIGITAL COMMUNICATIONS
375/316 .RECEIVERS
375/340 ..Particular pulse demodulator or detector
- 9 375/341 (7 OR, 2 XR)
Class 375 PULSE OR DIGITAL COMMUNICATIONS
375/316 .RECEIVERS
375/340 ..Particular pulse demodulator or detector
375/341 ...Maximum likelihood decoder or viterbi decoder
- 7 375/344 (2 OR, 5 XR)
Class 375 PULSE OR DIGITAL COMMUNICATIONS
375/316 .RECEIVERS
375/344 ..Automatic frequency control
- 6 375/324 (3 OR, 3 XR)
Class 375 PULSE OR DIGITAL COMMUNICATIONS
375/316 .RECEIVERS
375/322 ..Angle modulation
375/324 ...Particular demodulator
- 6 370/342 (3 OR, 3 XR)
Class 370 MULTIPLEX COMMUNICATIONS
370/310 .COMMUNICATION OVER FREE SPACE
370/342 ..Combining or distributing information via code word
channels using multiple access techniques (e.g., CDMA)
- 5 375/346 (1 OR, 4 XR)
Class 375 PULSE OR DIGITAL COMMUNICATIONS
375/316 .RECEIVERS
375/346 ..Interference or noise reduction
- 5 375/327 (3 OR, 2 XR)
Class 375 PULSE OR DIGITAL COMMUNICATIONS
375/316 .RECEIVERS
375/322 ..Angle modulation
375/324 ...Particular demodulator
375/327Phase locked loop
- 5 370/335 (2 OR, 3 XR)
Class 370 MULTIPLEX COMMUNICATIONS
370/310 .COMMUNICATION OVER FREE SPACE
370/328 ..Having a plurality of contiguous regions served by
respective fixed stations
370/329 ...Channel assignment
370/335Combining or distributing information via code word
channels using multiple access techniques (e.g., CDMA)
- 5 375/349 (0 OR, 5 XR)
Class 375 PULSE OR DIGITAL COMMUNICATIONS
375/316 .RECEIVERS
375/346 ..Interference or noise reduction
375/349 ...Plural signal paths in receiver
- 5 329/304 (0 OR, 5 XR)
Class 329 DEMODULATORS
329/304 .PHASE SHIFT KEYING OR QUADRATURE AMPLITUDE DEMODULATOR

- 5 375/260 (4 OR, 1 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/259 .SYSTEMS USING ALTERNATING OR PULSATING CURRENT
 375/260 ..Plural channels for transmission of a single pulse train
- 4 370/320 (2 OR, 2 XR)
 Class 370 MULTIPLEX COMMUNICATIONS
 370/310 .COMMUNICATION OVER FREE SPACE
 370/315 ..Repeater
 370/316 ...Airborne or space satellite repeater
 370/319Multiple access (e.g., FDMA)
 370/320Code division (CDMA)
- 4 375/283 (1 OR, 3 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/259 .SYSTEMS USING ALTERNATING OR PULSATING CURRENT
 375/271 ..Angle modulation
 375/279 ...Phase shift keying
 375/283Differential phase shift keying (diphase)
- 4 375/347 (0 OR, 4 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/316 .RECEIVERS
 375/346 ..Interference or noise reduction
 375/347 ...Diversity (frequency or time)
- 4 714/794 (1 OR, 3 XR)
 Class 714 ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY
 714/699 .PULSE OR DATA ERROR HANDLING
 714/746 ..Digital data error correction
 714/786 ...Forward error correction by tree code (e.g.,
 convolutional)
 714/794Maximum likelihood
- 4 375/330 (1 OR, 3 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/316 .RECEIVERS
 375/322 ..Angle modulation
 375/329 ...Phase shift keying
 375/330Differential (diphase)
- 3 375/348 (0 OR, 3 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/316 .RECEIVERS
 375/346 ..Interference or noise reduction
 375/348 ...Intersymbol interference
- 3 375/150 (1 OR, 2 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/130 .SPREAD SPECTRUM
 375/140 ..Direct sequence
 375/147 ...Receiver
 375/150Correlation-type receiver
- 3 375/343 (0 OR, 3 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/316 .RECEIVERS
 375/340 ..Particular pulse demodulator or detector
 375/343 ...Correlative or matched filter
- 3 375/376 (0 OR, 3 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/354 .SYNCHRONIZERS

- 375/371 ..Phase displacement, slip or jitter correction
- 375/373 ...Phase locking
- 375/376Phase locked loop

- 3 714/796 (0 OR, 3 XR)
 - Class 714 ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY
 - 714/699 .PULSE OR DATA ERROR HANDLING
 - 714/746 ..Digital data error correction
 - 714/786 ...Forward error correction by tree code (e.g., convolutional)
 - 714/796Branch metric calculation

- 3 455/522 (1 OR, 2 XR)
 - Class 455 TELECOMMUNICATIONS
 - 455/39 .TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
 - 455/500 ..Plural transmitters or receivers (i.e., more than two stations)
 - 455/507 ...Central station (e.g., master, etc.)
 - 455/517To or from mobile station
 - 455/522Transmission power control technique

- 3 455/69 (0 OR, 3 XR)
 - Class 455 TELECOMMUNICATIONS
 - 455/39 .TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
 - 455/68 ..with control signal
 - 455/69 ...Transmitter controlled by signal feedback from receiver

- 3 375/329 (1 OR, 2 XR)
 - Class 375 PULSE OR DIGITAL COMMUNICATIONS
 - 375/316 .RECEIVERS
 - 375/322 ..Angle modulation
 - 375/329 ...Phase shift keying

- 3 375/279 (0 OR, 3 XR)
 - Class 375 PULSE OR DIGITAL COMMUNICATIONS
 - 375/259 .SYSTEMS USING ALTERNATING OR PULSATING CURRENT
 - 375/271 ..Angle modulation
 - 375/279 ...Phase shift keying

- 3 375/325 (1 OR, 2 XR)
 - Class 375 PULSE OR DIGITAL COMMUNICATIONS
 - 375/316 .RECEIVERS
 - 375/322 ..Angle modulation
 - 375/324 ...Particular demodulator
 - 375/325Including coherent detector

- 3 455/337 (1 OR, 2 XR)
 - Class 455 TELECOMMUNICATIONS
 - 455/130 .RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
 - 455/334 ..with particular receiver circuit
 - 455/337 ...Discriminator or demodulator

- 3 375/308 (0 OR, 3 XR)
 - Class 375 PULSE OR DIGITAL COMMUNICATIONS
 - 375/295 .TRANSMITTERS
 - 375/302 ..Angle modulation
 - 375/308 ...Phase shift keying

- 3 370/350 (1 OR, 2 XR)
 - Class 370 MULTIPLEX COMMUNICATIONS
 - 370/310 .COMMUNICATION OVER FREE SPACE
 - 370/345 ..Combining or distributing information via time channels
 - 370/350 ...Synchronization

- 3 455/67.11 (2 OR, 1 XR)
 Class 455 TELECOMMUNICATIONS
 455/39 .TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
 455/67.11 ..Having measuring, testing, or monitoring of system or part
- 3 375/149 (0 OR, 3 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/130 .SPREAD SPECTRUM
 375/140 ..Direct sequence
 375/147 ...Receiver
 375/149Having specific code synchronization
- 3 329/308 (2 OR, 1 XR)
 Class 329 DEMODULATORS
 329/304 .PHASE SHIFT KEYING OR QUADRATURE AMPLITUDE DEMODULATOR
 329/306 ..Input signal combined with local oscillator or carrier
 frequency signal
 329/307 ...Including phase or frequency locked loop
 329/308With parallel signal combiners (e.g., Costas loop)
- 2 375/280 (1 OR, 1 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/259 .SYSTEMS USING ALTERNATING OR PULSATING CURRENT
 375/271 ..Angle modulation
 375/279 ...Phase shift keying
 375/280More than two phases
- 2 375/142 (1 OR, 1 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/130 .SPREAD SPECTRUM
 375/140 ..Direct sequence
 375/141 ...End-to-end transmission system
 375/142Having correlation-type receiver
- 2 375/326 (0 OR, 2 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/316 .RECEIVERS
 375/322 ..Angle modulation
 375/324 ...Particular demodulator
 375/326Carrier recovery circuit or carrier tracking
- 2 455/334 (0 OR, 2 XR)
 Class 455 TELECOMMUNICATIONS
 455/130 .RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
 455/334 ...With particular receiver circuit
- 2 370/252 (1 OR, 1 XR)
 Class 370 MULTIPLEX COMMUNICATIONS
 370/241 .DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION)
 370/252 ..Determination of communication parameters
- 2 714/795 (0 OR, 2 XR)
 Class 714 ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY
 714/699 .PULSE OR DATA ERROR HANDLING
 714/746 ..Digital data error correction
 714/786 ...Forward error correction by tree code (e.g.,
 convolutional)
 714/795Viterbi decoding
- 2 375/355 (1 OR, 1 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/354 .SYNCHRONIZERS

- 375/355 ..Synchronizing the sampling time of digital data
- 2 375/316 (0 OR, 2 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/316 .RECEIVERS
- 2 375/265 (1 OR, 1 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/259 .SYSTEMS USING ALTERNATING OR PULSATING CURRENT
 375/260 ..Plural channels for transmission of a single pulse train
 375/261 ...Quadrature amplitude modulation
 375/265Trellis encoder or Trellis decoder
- 2 375/224 (1 OR, 1 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/224 .TESTING
- 2 375/284 (1 OR, 1 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/259 .SYSTEMS USING ALTERNATING OR PULSATING CURRENT
 375/271 ..Angle modulation
 375/279 ...Phase shift keying
 375/284Antinoise or distortion
- 2 370/526 (0 OR, 2 XR)
 Class 370 MULTIPLEX COMMUNICATIONS
 370/464 .COMMUNICATION TECHNIQUES FOR INFORMATION CARRIED IN PLURAL
 CHANNELS 370/498 ..Combining or distributing information via time channels
 370/522 ...Signaling (ancillary to main information)
 370/526Digital tone detection
- 2 370/201 (0 OR, 2 XR)
 Class 370 MULTIPLEX COMMUNICATIONS
 370/201 .CROSSTALK SUPPRESSION
- 2 342/450 (0 OR, 2 XR)
 Class 342 COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
 (E.G., RADAR, RADIO NAVIGATION)
 342/350 .DIRECTIVE
 342/450 ..Position indicating (e.g., triangulation)
- 2 455/425 (0 OR, 2 XR)
 Class 455 TELECOMMUNICATIONS
 455/403 .RADIOTELEPHONE SYSTEM
 455/422.1 ..Zoned or cellular telephone system
 455/423 ...Diagnostic testing, malfunction indication, or electrical
 condition measurement
 455/425Subscriber equipment
- 2 455/205 (1 OR, 1 XR)
 Class 455 TELECOMMUNICATIONS
 455/130 .RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
 455/205 ..Frequency or phase modulation
- 2 375/148 (1 OR, 1 XR)
 Class 375 PULSE OR DIGITAL COMMUNICATIONS
 375/130 .SPREAD SPECTRUM
 375/140 ..Direct sequence
 375/147 ...Receiver
 375/148Multi-receiver or interference cancellation
- 2 375/262 (0 OR, 2 XR)

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|-----------|---|
| Class 375 | PULSE OR DIGITAL COMMUNICATIONS |
| 375/259 | .SYSTEMS USING ALTERNATING OR PULSATING CURRENT |
| 375/260 | ..Plural channels for transmission of a single pulse train |
| 375/261 | ...Quadrature amplitude modulation |
| 375/262 |Maximum likelihood decoder or viterbi decoder |
| 2 375/242 | (0 OR, 2 XR) |
| Class 375 | PULSE OR DIGITAL COMMUNICATIONS |
| 375/242 | .PULSE CODE MODULATION |
| 2 455/209 | (0 OR, 2 XR) |
| Class 455 | TELECOMMUNICATIONS |
| 455/130 | .RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER |
| 455/205 | ..Frequency or phase modulation |
| 455/208 | ...With synchronized or controlled local oscillator |
| 455/209 |Plural local oscillators or mixers |
| 2 375/233 | (1 OR, 1 XR) |
| Class 375 | PULSE OR DIGITAL COMMUNICATIONS |
| 375/229 | .EQUALIZERS |
| 375/230 | ..Automatic |
| 375/232 | ...Adaptive |
| 375/233 |Decision feedback equalizer |
| 2 455/59 | (2 OR, 0 XR) |
| Class 455 | TELECOMMUNICATIONS |
| 455/39 | .TRANSMITTER AND RECEIVER AT SEPARATE STATIONS |
| 455/59 | ..Single message via plural carrier wave transmission |
| 2 455/315 | (0 OR, 2 XR) |
| Class 455 | TELECOMMUNICATIONS |
| 455/130 | .RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER |
| 455/313 | ..Frequency modifying or conversion |
| 455/314 | ...Plural separate successive conversions |
| 455/315 |With plural separate local oscillators |
| 2 375/147 | (2 OR, 0 XR) |
| Class 375 | PULSE OR DIGITAL COMMUNICATIONS |
| 375/130 | .SPREAD SPECTRUM |
| 375/140 | ..Direct sequence |
| 375/147 | ...Receiver |
| 2 375/261 | (0 OR, 2 XR) |
| Class 375 | PULSE OR DIGITAL COMMUNICATIONS |
| 375/259 | .SYSTEMS USING ALTERNATING OR PULSATING CURRENT |
| 375/260 | ..Plural channels for transmission of a single pulse train |
| 375/261 | ...Quadrature amplitude modulation |
| 2 370/503 | (0 OR, 2 XR) |
| Class 370 | MULTIPLEX COMMUNICATIONS |
| 370/464 | .COMMUNICATION TECHNIQUES FOR INFORMATION CARRIED IN PLURAL |
| CHANNELS | |
| 370/498 | ..Combining or distributing information via time channels |
| 370/503 | ...Synchronizing |
| 2 455/214 | (0 OR, 2 XR) |
| Class 455 | TELECOMMUNICATIONS |
| 455/130 | .RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER |
| 455/205 | ..Frequency or phase modulation |
| 455/214 | ...With particular discriminator or detector |